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ΑN
     1992-313570 [38]
                        WPIDS
DNC C1992-139380
    Mfg. copper alloy for metal moulds for moulding
TI
     plastics - by solution treating alloy at specified temperature after hot
     cooling at specified rate, cold working and ageing at specified temperature.
DC
     A32 M26
PA
     (NIHA) NIPPON MINING CO
CYC
    JP 04221032
                    A 19920811 (199238) *
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PΙ
ADT JP 04221032 A JP 1990-413304 19901221
PRAI JP 1990-413304
                          19901221
     JP 04221032 A UPAB: 19931006
     The Cu alloy contains 0.1-4.0 weight% Ti and
     balance Cu, with opt. 0.001-3.0 weight% of at least one of
     Zn, P, Sn, As, Cr, Mg, Mn, Sb, Fe, Co, Al, Zr, Ti, Si,
     Ag, Pb, B, Ni and lanthanoids as sub-components, and with unavoidable
     impurities, comprises: solution treating the Cu alloy at
     600 deg.C or higher after hot forging; cooling at a rate of 1 deq.
     C/sec. or higher; and after cold working at a draught of
     20% or more, ageing at 250-500 deg.C.
            Cu alloy having excellent mechanical properties,
     thermal conductivity, and high temperature impact strength was pref. obtd. by
     subjecting a Cu alloy containing 0.05% Be and 3.0 Ti, to a
    process which comprises solution treating at 850 deg.C and cooling at a rate
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of 10 deg.C/sec., cold working at a draught of 40%, and ageing at 420 deg.C for 7 hrs.

USE/ADVANTAGE - Enables production of metal moulds having improved strength and thermal conductivity. The moulding of plastics can be shortened and the productivity can be increased. 0/0